ANNEX I (MILITARY AIRLIFT COMMAND (MAC))

REFERENCES:

a. DoD Directive 521 O.41-M, Nuclear Weapons Security Manual.
b. DoD Directive 6055-9, Explosive Safety Standards.
c. AR 740-32, Responsibilities for Technical Escort of Hazardous Materials.
d. AFR 28-3, USAF Operation Planning Process.
e. AFR 355-5, Armed Forces Doctrine for Chemical War and Biological Defense.
f. MACR 28-2, Contingency Planning Policies and Procedures.
g. MACR 55-25, Airlift Control Elements.
h. MACR 66-1, Maintenance Management Policy.
i. TM 38-250, Preparation of Hazardous Materials for Military Air Shipment,
j. T.O.11C15-1-3, Chemical Warfare Decontamination, Detection, and Disposal of Decontaminating Agents.
k. T.O. VO-2V-5, Aircraft Flight Records and Supporting Maintenance Documents.
1. MACP 50-13, MAC Affiliation Training Program - Airlift Planners Course.

1. GENERAL

a. Purpose This Annex outlines HQ MAC's specific responsibilities and tasks for air movement of toxic chemical munitions (TCM) during national emergency or contingency. TCM moves shall follow standard procedures when possible to reduce confusion and maintain airlift effectiveness. Highlighted herein are those procedures that are unique to TCM operations.

b. Assumptions

(1) MAC shall not move TCM that are leaking or have not been certified for air movement.

(2) U.S. Army depot personnel shall prepare DD Form 1387-2, Special Handling Data/Certification and DD Form 1911, Materiel Courier Receipt, for TCM movement.

(3) U.S. Army depot personnel shall assist in building TCM loads and preparing manifests.

(4) HQ U. S. A.F., through AFLC, shall waiver T.O.11C15-1-3, Chapter 4 requirements to allow use of metal alloy corrosive decontaminants (high test bleach, sodium carbonate, sodium hydroxide, and other neutralizing solutions) on aircraft.

c. Airfields Due to the hazards of over-the-road convoy and the special handling required, it is planned to upload TCM at airfields other than standard MAC APOEs. The departure airfields, listed in Appendix I, have been approved by MAC for C-5 and C-141 operations (except as noted). Although most of these airfields can handle KC- 10s, it is not planned to use them due to the special MHE required for upload and download (Widebody Elevator Loaders).

d. Load Plans/Pallets To insure rapid response to the need for TCM, approximately three days of pallet requirements will be prepositioned at each depot as listed in Appendix L The

loading of TCM is identical to standard high explosives and as specified in AFR 71-4 (TM38-250). Appendix II contains pallet descriptions for each type weapon and C-141 load data.

2. CONCEPT OF OPERATIONS

When the TCM movement requirement is input into an OPLAN or contingency TPFDD by the theater CINC, MAC schedules airlift against it following standard procedures. MAC insures sufficient Airlift Control Elements (ALCE)/Mission Support Teams (MST) are available at both departure and arrival airfields. MAC shall provide equipment as necessary to support the flow. MAC refers to the airfield/depot MOU for equipment/facilities availability. MAC also coordinates with enroute bases to insure they are aware of unique mission/cargo handling requirements. MAC ensures periodic chemical monitoring by technical escorts during pallet buldup, onload, flight, and offload. Contaminated aircraft shall be decontaminated by Air Force, supporting Service, or Host Nation decontamination teams. A MAC aircrew member or aircraft crew chief shall advise the decontamination team chief of electrical/mechanical hazards and potential drainage problems. Technical escorts will provide technical advice and assistance during all operations with TCM.

3. RESPONSIBILITIES

a. HQ MAC DCS for Operations:

(1) Review and validate TCM onload/enroute/offload airfields and airports.

(2) Obtain final route clearances to include enroute emergency and diversionary airfields.

(3) Furnish chemical warfare defensive equipment, to include nerve agent antidotes and pretreatment drugs as directed by MAC/SG, for aircrews and mission support personnel moving TCM. Pretreatment drugs shall be taken by aircrews as directed by command procedures. Ensure air and ground crew training shall be conducted at least annually for TCM missions to include choline sterase level sampling procedures.

(4) Standardized TCM pallet load drawings and specifications.

(5) Publish airlift mission directives, TCM movement notices and itinerary messages, to include providing advance notice on scheduled arrival time and support requirements to Wing Commanders, Chief of Security Police, Command Posts, ALCE/MST, AMCCOM, and shipping installation at onload, enroute, emergency, diversionary, and offload airfields.

(6) Publish procedures for use and wear of chemical warfare defensive equipment during onload/offload, flight, and emergency operations for aircrews and mission support personnel.

(7) Provide an ALCE or MST and/or MSE for pallet buildup at onload/enroute/ offload airfields and airports as appropriate.

(8) Ensure aircrews are briefed by U.S. Army technical escorts on safety procedures. The technical escorts shall courier the TCM to the APOD or offload airfield. The briefing shall include: chemical agent type, characteristics, first aid procedures; periodic agent

sampling, false/positive alarm indications; leak patching; requirements for fumes/smoke purge; decontamination methods; and jettison procedures. The technical escorts shall demonstrate agent detection equipment and first aid/self aid measures.

(9) Ensure technical escorts are briefed on use of aircraft loadmaster headset, communications line, portable oxygen bottle, bottle recharging, and safety procedures.

(10) Publish procedures for use of the aircraft environmental control unit (ECU) fume-smoke suppressant and/or auxiliary vent system in the event of a TCM leak.

(11) Recovery Concept. The offload shall involve minimum time on the ground, departing as soon as possible to the recovery location. In the event of a TCM leak, dependent on the threat and potential danger to aircrew and aircraft, the aircraft may receive cursory decontamination at the offload point. The aircrew shall then fly the aircraft to the recovery location. Vapor contamination can be decontaminated by use of the ECU/fume-smoke suppressant systems and/or auxiliary unit vent procedures at altitude. Liquid chemical agent contamination can also be removed by aeration, but neutralizing with decontaminating solutions shall be required at the recovery location. Technical escorts will determine the effectiveness of decontamination.

(12) Develop aircrew, technical escort, loadmaster, ALCE and MST, communications link for use with the chemical warfare defense equipment.

(13) Coordinate with DESCOM to conduct the MAC affiliation load planners course for selected depot personnel.

b. HQ MAC DCSfor Logistics:

(1) Furnish chemical warfare defense equipment for ground support personnel working TCM-related operations.

(2) Ensure appropriate munitions personnel assist technical escorts with leaking TCM at MAC airfields.

(3) Monitor revision of T.O.11C15-1-3, Chapter 4 requirements to allow use of metal alloy corrosive decontaminants on aircraft.

(4) In the event of extensive aircraft contamination requiring removal/replacement of systems components or structures, provide maintenance personnel and equipment to work with Air Force, supporting Service and/or host-nation decontamination team to return aircraft to a chemically-clean status. Minor decontamination, to include removal of aircraft insulation, may be accomplished by on-the-scene personnel (crew chief, flight engineer, loadmaster, decontamination team member, etc.) under supervision of a flight crew member. Aircraft 780 series forms and the aircraft Form F will be used to document such actions. U.S. Army technical escorts will verify completeness of decontamination actions.

(5) Provide material handling equipment decontamination at MAC operating locations.

(6) Provide aircraft communications cord for the ALCE/MST and/or aerial port personnel.

c. HQ MAC DCS for Air ~:

(1) Coordinate standardized TCM 463L pallet load drawings and specifications.

(2) Preposition aerial port personnel and material handling equipment at designated TCM onload/offload airfields.

(3) Provide aerial port personnel for TCM pallet buildup, inspection, documentation control, and loading per Annex II. U.S. Army depot will also provide pallet buildup personnel.

(4) Furnish chemical warfare defense equipment for ground support personnel handling/moving TCM.

(5) Ensure that contact is established with the depot TCM movement point of contact. Determine the number of U.S. Army personnel to be furnished for TCM pallet buildup, onload, and offload.

(6) Ensure offload of TCM at APODs/arrival airfields.

(7) Ensure the U.S. Army certifies TCM air worthiness and prepares cargo manifest, DD Form 1387-2 (Special Handling Data/Certification), and DD Form 1911 (Materiel Courier Receipt).

(8) Provide 10 two-inch pallet couplers per TMU28/B mission.

(9) Ensure positioning of automatic chemical alarms downwind during pallet buildup, temporary hold, onload, and offload.

(10) Ensure pallet buildup, temporary holding, onload, and offload areas are isolated and downwind of populated areas.

(11) Work with MAC IGFX and U.S. Army personnel to develop explosive safety site plans IAW DoD Directive 6055.9, AR 385-65 and AFR 127-100.

d. HQ MAC DCS for Security Police:

(1) Review agreements/MOUs coordinated by other agencies with airport and airfield managers at departure and enroute airfields/airports to provide appropriate security for the TCM.

(2) Coordinate security for TCM per DoD Directive 521 O.41-M (AFR 207-10) at MAC enroute, emergency, or diversionary bases.

e. HQ MAC DCS for Operations Plans:

(1) Publish procedures for use and wear of chemical warfare defense equipment during TCM movement and handling.

(2) Publish procedures to implement TCM movement.

f. HQ MAC DCS for Intelligence:

Furnish security threat information for onload and enroute locations.

g. OPR for this Annex is HQ MAC.XON.

APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. **GENERAL** This Appendix contains general information on TCM numbers, weight, and cube; "sample" TCM 463L pallet drawings; planned aircraft payloads; and "sample" cargo load plans for deployable TCM.

2. **TOXIC CHEMICAL MUNITIONS**

Information described above is provided in Tabs to this Appendix for munitions as indicated below:

Tab A	Cartridge, 105mm, Chemical Agent - Load Plan Information and Cargo Manifest
Tab B	Mine Chemical Agent, M23 - Load Plan Information and Cargo Manifest
Tab C	Projectile, 155mm Chemical Agent - Load Plan Information and Cargo Manifest
Tab D	Projectile, 8-inch, Chemical Agent - Load Plan Information and Cargo Manifest
Tab E	Bomb, Chemical, MK1 16- MOD O (Weteye) - Load Plan Information and Cargo Manifest
Tab F	Bomb, Chemical, MC-1, 750 lbs - Load Plan Information and Cargo Manifest
Tab G	Tank, Spray, Chemical, TM(J 28/B - Load Plan Information and Cargo Manifest
Tab H	One-ton Container, Chemical - Load Plan Information and Cargo Manifest
Tab I	Bomb, Chemical, MK94 MOD O, 500 lbs - Load Plan Information and Cargo Manifest
Tab J -	Aero 14B, Spray Tank - Load Plan Information and Cargo Manifest

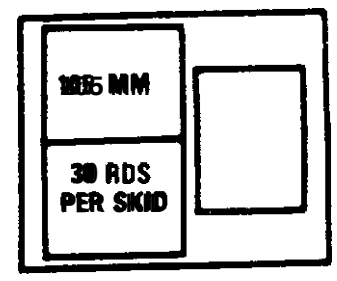
TAB A (CARTRIDGE, 105MM, CHEMICAL AGENT) TO APPENDIX 11
(PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. Cartridge, 105mm, Chemical Agent - Load Plan Information Guide.

a. 105 MM
Rds 750
Army pits size 37-47-35
30 ea/1880 wt/34 cu
463L pits are 84 x 104 cargo surface

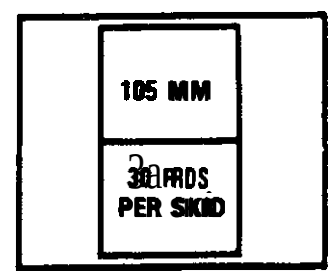
(1) Total 463L pits 7
Net wt 5640
463L empty wt 355
GWT 5995
Total Army plts per 463L 3

90 Rds per 463L



(2) Total 463L pits 2
Net wt 3760
463L empty wt 355
GWT 4115
Total Army plts per 463L 2

60 Rds per 463L



b. Total Army wood plts 25
Total 463L pits 9
2 men-them kits/water= 1132 (approx)
C-141B
Planned Payload 51327"
Aircraft Target Payload 50600

2. Cargo manifest follows:

*Over gross

(sAMPLE)

3.

UNIT BEING AIRLIFTED (Name or Number)	2. UNIT IDENTIFICATION CODE	TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT AIRCRAFT LOAD NO. w	PAGE OF PAGES
i. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER (Last Five)	8. CONFIGURATION	9. DEPARTURE AIRFIEL.M1O	10. DESTINATION AIRFIELD/ETA	

1. ACTUAL LOADOUT

SCALE: 1/4 INCH = 3 FEET

LOAD EQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d REMARKS (Special Handling, Shoring) REMARKS CODE (From col g) (1)	d REMARKS (Special Handling, Shoring) OTHER (2)	e. PLANNED LOAD DATA TOTAL (In Inches) LENGTH	WIDTH	HEIGHT	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,000)	f. ACTUAL LOAD DATA HEIGHT (Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,LW)	g. REMARKS CODES (For use in Column d(1))
															1, Off center 1A. RIGHT 1B. LEFT 2. Center line load. 2. Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL 4. Must be positioned in direction of arrow 5. Sequence by actual weights. 6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133 7. Maximum fuel: 7A. 1/2 TANK 7B.1/4 TANK 8. Equipment drained/purged. 8A. DRAINED NOT PURGED 8B. PURGED 9. Vent kit required. Other Conditions: Identify in column d(2).
2a. PASSENGER SEATS PLANNING DATA NUMBER SEATS	AVG WEIGHT (Pounds Each)	TOTAL PLANNED WT.	13 TOTAL WEIGHT/ MOMENT FROM REVERSE					LOAD CG STA				10AO CG STA		
			14. TOTAL											
b. PASSENGER SEATS ACTUAL DATA UMBER SEATS USED	TOTAL WEIGHT (Pounds)		15a. PLANNED LOAD OATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL			SIG NATURE OF PLANNING OF FICIAL						
			15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF LOAD DATA VAL1OATOX			SIGNATURE OF LOAD DATA VALIDATOR						

) Form 2130-3, DEC 88 *Previous* editions *are obsolete.* C. 1418 CARGO MANIFEST

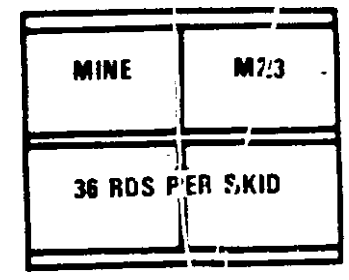
I-II-A-2

TAB B (MINE CHEMICAL AGENT, M23) TO APPENDIX 11 (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

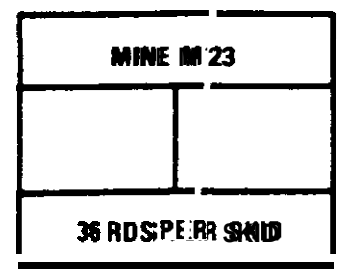
1. Mine, Chemical Agent M23 - Load Plan Information Guide.

a. MINE M23
Rds 1224
Army plt size 52-35-49
36 ea/1337 wt/52 cu
463L pits are 84 x 104 cargo surface

(1) Total 463L pits — 144 Rds per 463L
Net wt 534:
463L empty wt 355
GWT 5703
Total Army pits per 463L "" 4



(2) Total 463L pits 1 — 72 Rds per 463L
Net wt 2674
463L empty wt 355
GWT 3029
Total Army pits per 463L 2



b. Total Army wood plts 34
Total 463L pits 9
2 men/them kits/water= 1132 lbs (approx)
C-141B
. Planned Payload 49785
Aircraft Target Payload 50600

2. Cargo manifest follows:

(SAMPLE)

(Mission Number)

CODE | MOVE PLAN | MCRA | OF | PAGE OF PAGES

AIRCRAFT NUMBER | IGURA

SCALE: WINCH = 5 FEET

LOAD SEQUENCE	ITEM MODEL AND NOMENCLATURE/DESCRIPTION	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO.	CODE (Special Handling Stowing)	TOTAL (in inches)	GROSS WEIGHT (Pounds)	FUSELAGE	MOMENT	HEIGHT (Total Inches)	GROSS WEIGHT (Pounds)	FUSELAGE	MOMENT	9. REMARKS CODES (For use in
												1A. RIGHT
												3B. ROLLING
												positioned in direction of arrow
												6. Hazardous
												7A. 1/2 TANK 7B. 1/4 TANK
												Equipm lined/pu.
												8A. DRAINED NOT PURGED 8B. PURGED
												9. Vent kit required.
												d(2).
			14. TOTAL									

(Pounds Each)	PLANNED WT.

12b. PASSENGER SEATS ACTUAL DATA

NUMBER SEATS USED	TOTAL WEIGHT (Pounds)

15a. PLANNED LOAD DATA CERTIFICATION | DATE CERTIFIED | TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL | SIGNATURE OF PLANNING OFFICIAL

15b. ACTUAL LOAD DATA CERTIFICATION | DATE CERTIFIED | D/PRIN ORGA

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TAB C (PROJECTILE, 155MM, CHEMICAL AGENT) TO APPENDIX II
(PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. Projectile, 155mm, Chemical Agent - Load Plan Information Guide.

a. 155 MM projectile

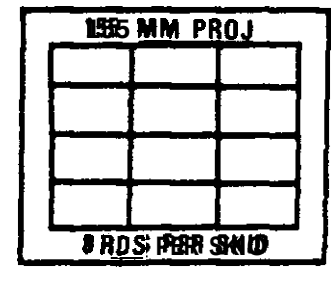
Rds 456

Army pits size 27-13 .5-31.5

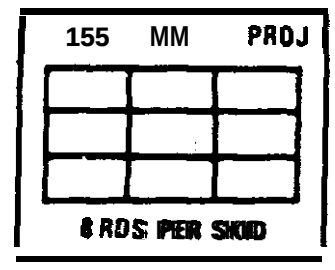
8 ea/832 wt//66 cu

463L plts are 84x 104 cargo surface

(1)	Total 463L plts	4	96 Rds per 463L
	Net wt	9984	
	463L empty wt	355	
	GWT	10339	
	Total Army plts per 463L	12	



(2)	Total 463L plts	1	72 Rds per 463L
	Net wt	7488	
	463L empty wt	355.	
	GWT	7843	
	Total Army plts per 463L	9	



, (SAMPLE)

1. UNIT BEING AIRLIFTED (Name or Number)	2. W IDENTIFICATION CODE	3. TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT AIRCRAFT LOAD NO. OF	PAGE OF PAGES
6. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER (Last Five)	8. CONFIGURATION	9. DEPARTURE AIRFIELD/ETD	10. DESTINATION AIRFIELD/ETA	

11. ACTUAL LOADOUT

SCALE: 1/4 INCH = 3 FEET

LOAD SEQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS (Special Handling, Shoring) REMARKS CODE (From col g) (1)	d. REMARKS (Special Handling, Shoring) OTHER (2)	e. PLANNED LOAD DATA TOTAL (In Inches) LENGTH	WIDTH	HEIGHT	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,000)	f. ACTUAL LOAD DATA HEIGHT (Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,069)	g. REMARKS CODES (For use in Column d(1))
															1. Off center: 1A. RIGHT 1B LEFT 2 Center line load. 3 . Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL 4. Must be positioned in direction of arrow 5. Sequence by actual weights. 6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133 7. Maximum fuel. 7A. 1/2 TANK 7D. 1/4 TANK 8. Equipment drained/purged 8A. DRAINED NOT PURGED 8B. PURGED 9. Vent kit required. Other Conditions identify in column d(2).

12a. PASSENGER SEATS PLANNING DATA			13. TOTAL WEIGHT / MOMENT FROM REVERSE									
NUMBER SEATS	AVG WEIGHT (Pounds Each)	TOTAL PLANNED WT.										
			14. TOTAL				LOAD CG STA				LOAD CG STA	
12b. PASSENGER SEATS ACTUAL DATA			15a. PLANNED LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL						SIGNATURE OF PLANNING OFFICIAL	
NUMBER SEATS USED	TOTAL WEIGHT (Pounds)		15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	TYMXWNNTIO NAME, GRADE, ORGANIZATION OF 10AO OATA VALIDATOR						SIGNATURE OF LOAD DATA VALIDATOR	

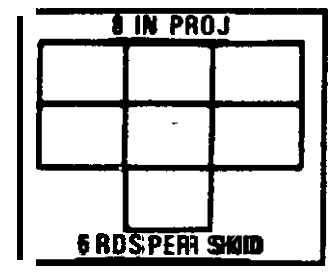
I-II-C-2

TABD (PROJECTILE, 8-INCH, CHEMICAL AGENT) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

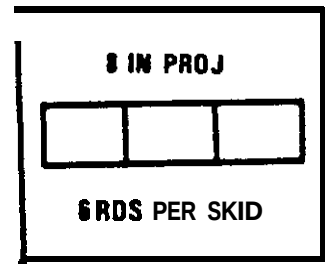
1. Projectile, 8-inch, M426, Chemical Agent - Load Plan Information Guide.

a. 8-inch projectile
Rds 228
Army pits size 28.5- 19.5-38.5
6 ea/1255 wt/12.4 cu
463L pits are 84 x 104 cargo surface

(1) Total 463L pits 5 42 Rds per 463L
Net wt 8785
463L empt wt 355
GWT 9140
Total Army plts per 463L 7



(2) Total 463L pits 1 18 Rds per 463L
Net wt 3765
463L empty wt 355
GWT 4120
Total Army pits per 463L 3



b. Total Army wood plts 38
Total 463L plts " 6
2 men/chem kit/water = 1132 lbs (approx)
C-141B
Planned Payload 50952"
Aircraft Target Payload 50600

2. Cargo manifest follows:

"over gross

(SAMPLE)

I-II-D-2

1. UNIT BEING AIRLIFTED *(Name or Number)*	2. *UNIT IDENTIFICATION* Coot	3. TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT AIRCRAFT LOAD NO OF	PAGE OF PAGES
6. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER *(Last Five)*	8. CONFIGURATION	9. DEPARTURE AIRFIELD/ETD	10. DESTINATION AIRFIELD/ETA	

11. ACTUAL LOADOUT

SCALE: 1/4 INCH = 3 FEET

LOAD SEQUENCE ..	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS *(Special Handling, Shoring)*		e. PLANNED LOAD DATA						f, ACTUAL LOAD DATA				g. REMARKS CODES *(For use in Column d(1))*
			REMARKS CODE *(From col g)* (1)	OTHER (2)	TOTAL *(In Inches)* LENGTH	WIDTH	HEIGHT	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT (10,COO)	HEIGHT *(Total Inches)*	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT *(10,000)*	
															1. Off center: 1A. RIGHT 1B. LEFT
															2. Center line load.
															3. Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL
															4. Must be positioned in direction of "0"
															5. Sequence by actual weights.
															6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133
															7. Maximum fuel 7A. 1/2 TANK 7B. 1/4 TANK
															8. Equipment drained/purged. 8A. DRAINED 8B. PURGED
															9. V**, < required.
															Other Conditions: Identify in column d(2).

12.. PASSENGER SEATS PLANNING DATA		
NUMBER SEATS	AVG WEIGHT *(Pounds Each)*	TOTAL PLANNED WT

12b. PASSENGER SEATS ACTUAL DATA	
NUMBER SEATS USED	TOTAL WEIGHT *(Pounds)*

13. TOTAL WEIGHT t MOMENT FROM REVERSE

14. TOTAL

LOAD CG STA

LOAD CG 51A

15a. PLANNED LOAD OATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL	SIGNATURE of PLANNING OFFICIAL
15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	N?WWRIII110 NAME, GRADE, ORGANIZATION OF LOAD DATA VALIDATOR	SIGNATURE OF LOAD DATA VALIDATOR

NO1WRG10

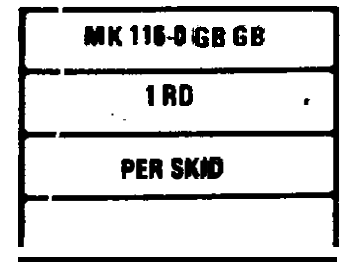
DD Form 2130-3, DEC 88 *Previous editions* • re *obsolete.* C - 141B CARGO MANIFEST

TABLE (BOMB, CHEMICAL, MK-116 - MOD O (WETEYE)) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

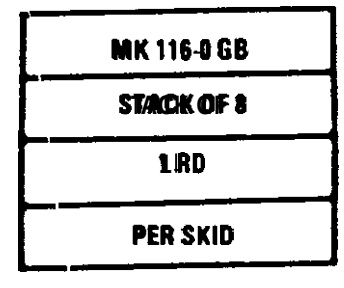
1. Bomb, Chemical, MK 116-MOD O (WETEYE) - Load Plan Information Guide.

a. Bomb, MK 116-0 (WETEYE)
Rds 54
Army pits size 103-20-2
1 es/851 wt/26.2 cu
463L pits are 84 x 104 cargo surface

(1)	Total 463L plts	6	8 Rds per 463L
	Net wt	6808	
	463L empty wt	355	
	GWT	7163	
	Total Army pits per 463L	8	



(2)	Total 463L plts	2	3 Rds per 463L
	Net wt	2553	
	463L empty wt	355	
	GWT	2908	
	Total Army pits per 463L	3	



b. Total Army wood plts 54
Total 463L pits 8
2 men/them kit/water = 1132 lbs (approx)
C-141B
Planned Payload 49926
Aircraft Target Payload 50600

2. Cargo manifest follows:

(SAMPLE)\

1. UNIT BEING AIRLIFTED (Name or Number)	2. UNIT IDENTIFICATION CODE	3. TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT AIRCRAFT LOAD NO. OF	PAGE OF PAGES
6. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER (Last Five)	8. CONFIGURATION	9. DEPARTURE AIRFIELD/ETD	10. DESTINATION AIRFIELD/ETA	

11. ACTUAL LOADOUT

SCALE: 1/4 INCH = 3 FEET

LOAD SEQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS (Special Handling, Shoring) REMARKS CODE (From col g) (1)	OTHER (2)	e. PLANNED LOAD DATA TOTAL (In Inches) LENGTH	WIDTH	HEIGHT	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,000)	f. ACTUAL LOAD DATA HEIGHT (Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,oc9J	g REMARKS CODES (For use in d(1))
															1. Off center: 1A. RIGHT 1*. LEFT 2. Center line 3. Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL 4. Must be positioned in direction of arrow 5. Sequence by actual weights 6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133 7. Maximum fuel 7A. 1/2 TANK 19. 1/4 TANK 8. Equipment drained/purged. 8A. DRAINED NOT PURGED 8B. PURGED 9. Vent kit required. Other Conditions identify in column d(2).

12a. PASSENGER SEATS PLANNING DATA		
NUMBER SEATS	AVG WEIGHT (Pounds Each)	TOTAL PLANNED WT.

12b PASSENGER SEATS ACTUAL DATA	
NUMBER SEATS USED	TOTAL WEIGHT (Pounds)

13. TOTAL WEIGHT / MOMENT FROM REVERSE														
14. TOTAL									LOAD CG STA				LOAD CG STA	

15a - D LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL	SIGNATURE OF PLANNING OFFICIAL
15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF LOAD DATA VALIDATOR	SIGNATURE OF LOAD DATA VALIOA1OR

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I-II-E-2

TAB F (BOMB, CHEMICAL, MC-1, 750 LBS) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

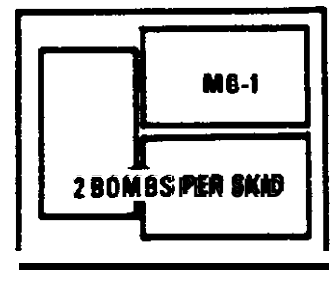
1. Bomb, Chemical, MC- 1,750 lbs - Load Plan Information Guide.

a. Bomb MC- 1
Rds 48
Army pits size 55-32-23
2 es/1590 wt/24cu
463L pits are 84 x 104 cargo surface

(1) Total 463L pits **6**

Net wt **4770**
463L empty wt **355**
GWT **5125**
Total Army pits per 463L **3**

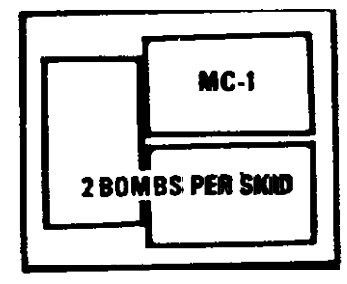
6 Rds per 463L



(2) Total 463L pits 3

Net wt 3180
463L empty wt 355
GWT 3535
Total Army pits per 463L 2

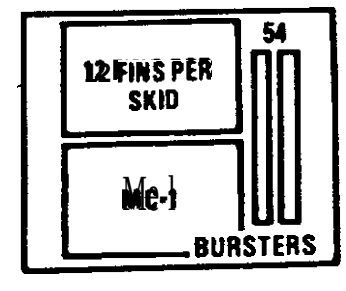
4 Rds per 463L



(3) Total 463L pits 1

Net wt **2900**
463L empty wt **355**
GWT **3255**
Fins 12 pit/676 lbs “
Size 58.5-38.7-45
Bursters 56.5-2.6
Total Army plts per 463L 2

24 Fins per 463L

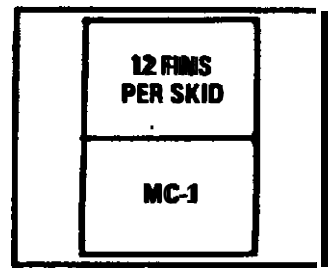


54 Bursters per 463L

(4) Total 463L plts 1

Net wt 1352
463L empty wt 355
GWT 1707
Fins 12 pit/676 lbs “
Size 58.5-38.7-45
Total Army plts per 463L 2

24 Fins per 463L



b. Total Army wood plts 24 (weapons only)
Total 463L pits 11 (9 with weapons)
2 men/chem kits/water = 1132 lbs (approx)
C-141B
Planned Payload 47449
Aircraft Target Payload 50600

2. Cargo manifest follows:

(SAMPLE)

1. UNIT BEING AIRLIFTED *(Name or Number)*	2. UNIT IDENTIFICATION CODE	3. TYPE MOVEMENT PLAN		OF	PAGE	OF	PAGES
	AIRCRAFT						

CA

LOAD SEQUENCE	NOMENCLATURE/DESCRIPTION	OR SERIAL INCREMENT NO.	REMARKS CODE (From Col a)	OTHER (Special Handli Shoring)	TOTAL (In Inches)			GROSS WEIGHT	FUSELAGE STATION	MOMENT (10,000)	HEIGHT (Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,000)	(For use in Column d(1))
															1A. RIGHT 1B. LEFT
															3. Shoring
															5. Seq actual ardous
															2133 Maximum fuel 7A. 1/2 TANK Equipment ained/purged 8A. DRAINED NOT PURGED
															required Other Conditions. Identify in column d(2).

12a. PASSENGER SEATS PLANNING DATA			13. TOTAL					LOAD CG	
NUMBER SEATS	AVG WEIGHT *(Pounds Each)*	TOTAL PLANNED WT.							
			14. TOTAL						

12b. PASSENGER SEATS ACTUAL DATA		15a. PLANNED LOAD DATA		TYPED/PRINTED NAME, GRADE, ORGANIZAT	NNING	SIGNA	PLANNING
NUMBER SEATS USED	TOTAL WEIGHT *(Pounds)*	15b. ACTUAL LOAD DATA CERT	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZA		SIGNA	

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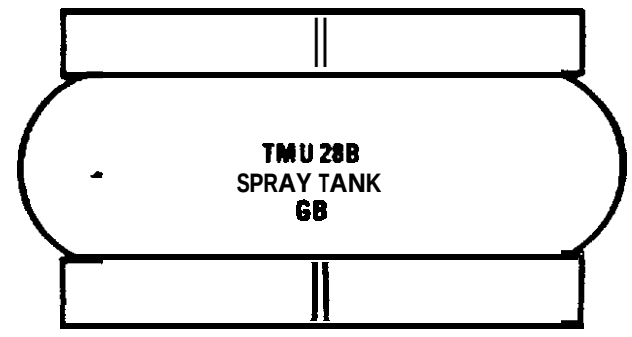
I-II-F-2

TAB G (TANK, SPRAY, CHEMICAL, TMU-28/B) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. Tank, Spray, Chemical, TMU-28/B - Load Plan Information Guide.

a. Tank Spray TMU-28/B
Rds 5
Army pits size 193-62-73
1/6000/505
Max 5 per aircraft
2 plt train
463L pits are 84 x 104 cargo surface

463L	Total 463L plts (2 plt train)	5 — 1 Rd per two
	Net wt	6000
	463L empty plt	355 x 2 = 710
	GWT	6710
	Total Army pits per 463L	1



b. Total Army wood plts 5
Total 463L plt (2 plt train) 5
2 men/them kits/water= 1132 lbs (approx)
C-141B
Planned Payload 34682
Aircraft Target Payload 50600

2. Cargo manifest follows:

(SAMPLE)

1. UNIT BEING AIRLIFTED *(Name or Number)*	2. UNIT IDENTIFICATION CODE	3. TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT AIRCRAFT LOAD NO. OF	PAGE OF PAGES
6. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER *(Last Five)*	8. CONFIGURATION	9. DEPARTURE AIRFIELD/ETD	10. DESTINATION AIRFIELD/ETA	

11. ACTUAL LOADOUT

SCALE: 1/4 INCH = 3 FEET

LOAD SEQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS *(Special Handling, Shoring)* REMARKS CODE *(From col g)* (1)	d. REMARKS OTHER (2)	e. PLANNED LOAD DATA TOTAL *(In Inches)* LENGTH	WIDTH	HEIGHT	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT *(10,000)*	f. ACTUAL LOAD DATA HEIGHT *(Total Inches)*	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT (10,LVV)	g. REMARKS CODES *(For use in d(1))*
															1. Off center: 1A. RIGHT 1B. LEFT
															2. Centerline load.
															3. Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL
															4. Must be positioned in direction of arrow
															5. Sequence by actual weights.
															6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133
															7. Maximum fuel 7A. 1/2 TANK 7B. 1M TANK
															8. Equipment drained/purged. 8A. DRAINED NOT PURGED 8B. PURGED
															9. Vent kit required.
															Ohm Conditions identify in column d(2).

12a. PASSENGER SEATS PLANNING DATA			13. TOTAL WEIGHT / MOMENT FROM REVERSE									
NUMBER SEATS	AVG WEIGHT *(Pounds Each)*	TOTAL PLANNED WT.	14. TOTAL				LOAD CG STA				LOAD CG STA	
12b. PASSENGER SEATS ACTUAL DATA			15a. PLANNED LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF MANNING OFFICIAL			SIGNATURE OF PLANNING OFFICIAL				
NUMBER SEATS USED	TOTAL WEIGHT *(Pounds)*		15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORSAM2ATION OF LOAD DATA VALIDATOR			SIGNATURE OF LOAD DATA VALIDATOR				

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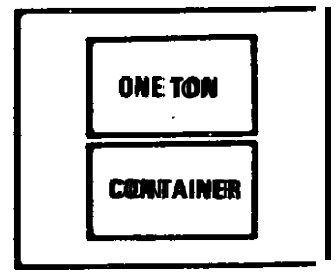
I-II-G-2

TAB H (ONE-TON CONTAINER, CHEMICAL - LOAD PLAN INFORMATION AND CARGO MANIFEST) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. One-Ton Container, Chemical - Load Plan Information Guide.

a. One-Ton Container
Rds 14
Army pits size 81.5-305
lea/3300 wt/44 cu
463L pits are 84 x 104 cargo surface

Total 463L pits	7	2 Rds per 463L
Net wt		6600
463L empty wt		355
GWT		6955
Total Army pits per 463L		2



b. Total Army wood plts 14
Total 463L plt 7
2 men/chem kits/water = 1132 lbs (approx)
C-141B
Planned Payload 49817
Aircraft Target Payload 50600

2. Cargo manifest follows:

(SAMPLE)

AIRLIFTED (Name _ Number) | UNIT IDENTIFICA..... CODE | MOVE PLAN | M/W _ | AIRCRAF... CARD NO.

OF PAGES | OF PAGES

MISSION NUMBE | AIRCRAFT SERIAL NUMBE | CONFIGURATION

OADOUT | CA...

LOAD SEQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	...OR SERIAL INCREMENT NO. c.	REMARK CODE (From col g)	OTHER	(Special Handling, Shoring) ...Inches) LENGTH	WIDTH	HEIGHT	...WEIGHT (...Pounds)	FUSELAGE STATION	MOMENT (/10 000)	...(Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (/10 000)	g. REMARKS CODES (For use in Column

1A. RIGHT ...

Center ...

3. Shoring Required:
3A. PARK
3B. ROLLING
3C. SLEEPER
3D. SPECIAL
Must be positioned in ... Sequence ...

...ual weights.

6. Hazardous Cargo
6A. ...
6B. DD Form 2133

Maximum fuel:
7A. 1/2 TANK ...

8. Equipment drained/purged.
8A. DRAINED NOT PURGED
8B. PURGED

9. Vent kit required.

Identify in column d(2).

12a. PASSENGER SEATS PLANNED DATA

NUMBER SEATS	AVG WEIGHT (Pounds Each)	TOTAL PLANNED WT.

13. TOTAL WEIGHT / MOMENT FROM REVERSE

14. TOTAL ... LOAD CG STA

15a. PLANNED LOAD DATA CERTIFICATION (Pounds) | DATE CERTIFIED | TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL | SIGNATURE OF PLANNING OFFICIAL

15b. ACTUAL LOAD DATA CERTIFICATION ORGA

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I-II-H-2

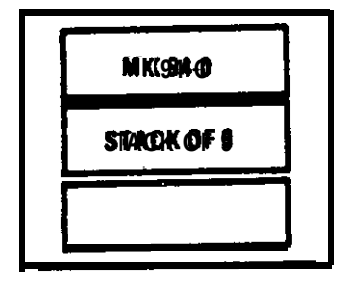
TAB 1 (BOMB, CHEMICAL, MK94, MOD O, 500 LBS) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

1. Bomb, Chemical, MK94-MOD 0,500 lbs - Load Plan Information Guide.

a. Bomb MK94-GB
Rds 73
Army pits size 75-23-21
1 es/534 wt/21 cu
463L pits are 84 x 104 cargo surface

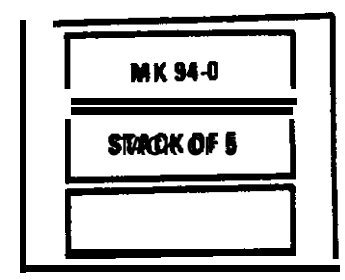
(1) Total 463L pits 7 — 9 Rds per 463L

Net wt	4806
463L empty wt	355
GWT	5161
Total Army pits per 463L	5



(2) Total 463L pits 2 — 5 Rds per 463L

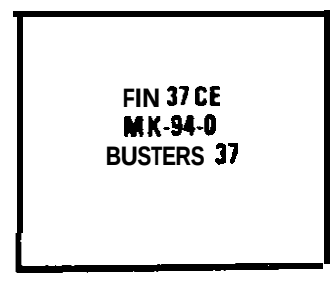
Net wt	2670
463L empty wt	355
GWT	3025
Total Army pits per 463L	7



(3) Total 463L pits 2 — 37 Fins per 463L

Net wt	2956
463L empty wt	355
GWT	3311

Fins 18 es/666 lbs
Size 27-12-12 = 2701
Burster 18 es/792 lbs
Size 56.5-2.6 = 3212
5913



37 Bursters per 463L

2 = 2956

b. Total Army wood plts 73
Total 463L plts 11
2 men/chem kits/water = 1132 lbs (approx)
C-141B

Planned Payload	49931
Aircraft Target Payload	50600

2. Cargo manifest follows:

(SAMPLE)

1. UNIT BEING AIRLIFTED *(Name or Number)*	2. UNIT IDENTIFICATION CODE	3. TYPE MOVEMENT PLAN	4. MOVEMENT DATE	5. UNIT/AIRCRAFT LOAD NO. OF	PAGE OF PAGES
6. MISSION NUMBER	7. AIRCRAFT SERIAL NUMBER *(Last Five)*	8. CONFIGURATION	9. DEPARTURE AIRFIELD/ETD	10. DESTINATION AIRFIELD/ETA	
11. ACTUAL LOADOUT		SCALE: 1/4 INCH = 3 FEET			

LOAD SEQUENCE	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS (Special Handling, Shoring) REMARKS CODE (From col g) (1)	d. REMARKS (Special Handling, Shoring) OTHER (2)	e. PLANNED LOAD DATA TOTAL (In Inches) LENGTH	WIDTH	HEIGHT	GROSS WEIGHT (Total Pounds)	FUSE LAW. STATION	MOMENT (10,000)	f. ACTUAL LOAD DATA HEIGHT (Total Inches)	GROSS WEIGHT (Total Pounds)	FUSELAGE STATION	MOMENT (10,000)	g. REMARKS CODES (For use in Column d(1))
															1. Off center: 1A. RIGHT 1B. LEFT 2. Center line load. 3. Shoring Required: 3A. PARKING 3B. ROLLING 3C. SLEEPER 3D. SPECIAL 4. Must be positioned in direction of arrow 5. Sequence by actual weights. 6. Hazardous Cargo: 6A. DD Form 1387-2 6B. DD Form 2133 7. Maximum fuel 7A. 1/2 TANK 7B. 1/4 TANK 8. Equipment drained/purged: 8A. DRAINED NOT PURGED 8B. PURGED 9. Vent kit required. Other Conditions: Identify in column d(2).

12a. PASSENGER SEATS PLANNING DATA			13. TOTAL WEIGHT / MOMENT FROM REVERSE							
NUMBER SEATS	AVG WEIGHT *(Pounds Each)*	TOTAL PLANNED WT	14. TOTAL			LOAD CG STA			LOAD CG STA	
12b. PASSENGER SEATS ACTUAL DATA			15a. PLANNED LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF PLANNING OFFICIAL			SIGNATURE OF PLANNING OFFICIAL		
NUMBER SEATS USED	TOTAL WEIGHT *(Pounds)*		15b. ACTUAL LOAD DATA CERTIFICATION	DATE CERTIFIED	TYPED/PRINTED NAME, GRADE, ORGANIZATION OF LOAD DATA VALIDATOR			SIGNATURE W LOAD DATA VALIDATOR		

I-II-I-2

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Previous editions are obsolete.

C. 1416 CARGO MANIFEST

I-I-I-3

(SAMPLE)

1. UNIT BEING AIRLIFTED *(Name or Number)*	2. UNIT IDENTIFICATION CODE	3. TYPE MOVEMENT FLAG	MCRA OF	PAGE	OF	PAGES

ACTUAL LOADOUT

CA

LOAD SEQUENCE a.	ITEM MODEL AND NOMENCLATURE/DESCRIPTION b.	VEHICLE PACKAGE NO. OR SERIAL INCREMENT NO. c.	d. REMARKS *(Special Handling, Shoring)* CODE *(From col g)* (1)	OTHER (2)	TOTAL *(In inches)* LENGTH	WIDTH	HEIGHT	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT *(10,000)*	HEIGHT *(Total Inches)*	GROSS WEIGHT *(Total Pounds)*	FUSELAGE STATION	MOMENT *(10,000)*	CODES *(For use in Column d(1))*
															1. Off center. 1A. RIGHT 1B. LEFT
															3. Shoring
															direction of arrow.
															5. Sequence actual weigh
															6. Hazardous
															8a. DD Form 2133
															Maximum fuel 7A. 1/2 TANK 7B. 1/4 TANK
															Equipment ined/purged
															NOT PURGED 8B. PURGED
															Vent kit required.
															Other Condition

12a. PASSENGER SEATS PLANNING DATA			13. TOTAL WEIGHT / MOMENT FROM REVERSE										
NUMBER SEATS	AVG WEIGHT *(Pounds Each)*	TOTAL PLANNED WT.											
			14. TOTAL										

12b. PASSENGER SEATS ACTUAL DATA *(Pounds)*	15a. PLANNED LOAD DATA CERTIFICATION	DATE CERTIFIED	SIGNATURE
	15b. ACTUAL LOAD DATA	DATE CERTIFIED	

DD Form 2130-3, DEC 88

Previous editions are obsolete.

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TAB J (AERO 14B, SPRAY TANK) TO APPENDIX II (PALLET DESCRIPTIONS AND AIRCRAFT LOAD DATA) TO ANNEX I (MAC)

NOTE: Special handling procedures are not required. Items are empty and are, therefore, shipped as general cargo.